

DRAFT

California Public Utilities Commission  
Alternative-Fueled Vehicle Rulemaking - R.09-08-009  
Electric Vehicle Workshop: Accelerating the Installation of Home Charging Equipment  
March 16, 2010  
10:00 a.m.  
Hearing Room A  
California Energy Commission  
1516 9<sup>th</sup> Street, Sacramento, CA 95814

Plug-in electric vehicles are projected to help modernize the electricity grid and reduce greenhouse gas emissions. The success of the early electric vehicle market depends in part on the customer's experience in bringing a car home and quickly establishing electric vehicle charging service.

The purpose of this workshop is to identify steps the state legislature, the California Public Utilities Commission, and other state regulatory agencies and local governments can take to streamline single-user charging installations.

Each section of the agenda will begin with brief responses to the questions listed below (i.e., five minutes) by panel members. Panel members will conclude with specific recommendations for the California Public Utilities Commission in the context of the Alternative-Fueled Vehicle proceeding (Rulemaking 09-08-009) and the questions below.

**Remote Access:** Presentations and audio from the meeting will be broadcast via the California Energy Commission's WebEx web on-line conferencing system. Computer Logon information: Please go to: <https://energy.webex.com/ec> and enter the unique meeting number (920 675 662). When prompted on-screen, provide your area code and phone number to receive a call back. Alternatively, you may call 1-866-469-3239 (toll-free in the U.S. and Canada). When prompted on the phone, enter the meeting number 920 675 662 and your unique Attendee ID number. Presentations will be on the web for viewing at <http://www.cpuc.ca.gov/afv>.

Agenda

Welcome and Opening Comments – 10:00 a.m.—10:15 a.m.  
Commissioner Nancy Ryan and Senator Christine Kehoe

10:15.m. – 12:00 p.m. Purchasing and bringing home a Plug-in Electric Vehicle

- When establishing single user charging, what is the experience of today's purchaser of a plug-in electric vehicle?
- What entities plan to offer single user electric vehicle charging infrastructure?
- How will these entities ensure that standardized single use charging equipment will be available when the customer purchases and electric vehicle?
- What electric infrastructure-related customer service plans do automakers offer for customers prior to and at the point of purchase of an electric vehicle?
- What lessons have automakers and charging infrastructure installation companies learned about establishing single use charging service for electric vehicles?
- What solutions are available beyond single user charging, such as charging at multi-dwelling units?

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- How can customers maximize existing load for EV charging? What is the status of SAE-J1772 connector for on-road vehicles and larger commercial vehicles?

-Enid Joffee, Clean Fuel Connection, Inc.  
-Alex Keros, General Motors  
-Kristen Helsel, AeroVironment  
-Brian Verprauskus, Nissan  
-Dave Packard, Clipper Creek

### 1:00 – 2:45 PM: The Race to be Plug-in Ready

- What improvements are cities and counties enacting to expedite permit, installation, and inspection processes?
- What are the existing code and permit requirements that will impact the widespread use of plug-in hybrid and electric vehicles? What changes to existing legal impediments could promote the widespread use of plug-in hybrid and electric vehicles?
- What is the role of state agencies with respect to infrastructure specific building requirements? Do “model” codes for local authorities exist?
- What options are available to reduce the cost of charging infrastructure?
- What infrastructure incentives are currently available to electric vehicle customers?
- What information technology tools enable access to updated infrastructure cost and best practices?

-Bob Hayden, City of San Francisco  
-Susan Freedman, San Diego Association of Governments  
-Andy Hoskinson, eTec  
-Peter Suterko, Los Angeles Department of Water and Power  
-Mark Alexander, Electric Power Research Institute  
-Shawn Huff, California Building Standards Commission

### 2:45 – 3:00 PM Break

### 3:00 – 4:00 PM: Potential Roles for the Electric Utility

- What role might the utility play to offer customer service and facilitate “hand-offs” between the customer, automakers, licensed electricians/installers, city permitting offices and city building inspectors?
- How do metering arrangements impact charging infrastructure installation?
- What actions will utilities take to oversee distribution system readiness for electric vehicle customers?

-Doug Kim, Southern California Edison  
-Saul Zambrano, Pacific Gas and Electric  
-Jeff Reed, San Diego Gas and Electric  
-Bill Boyce, Sacramento Municipal Utility District